AMAX panel 4000 / AMAX panel 4000 EN

ICP-AMAX4-P1 / ICP-AMAX4-P2-EN / ICP-AMAX4-P3-EN

BOSCH

en Quick Start Guide

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1 Short information

Thank you for choosing the AMAX panel 4000. This is a flexible, reliable, convenient, and easy-to-use alarm system. It has 16 wired zones on board, expandable up to 64 wired and wireless zones.

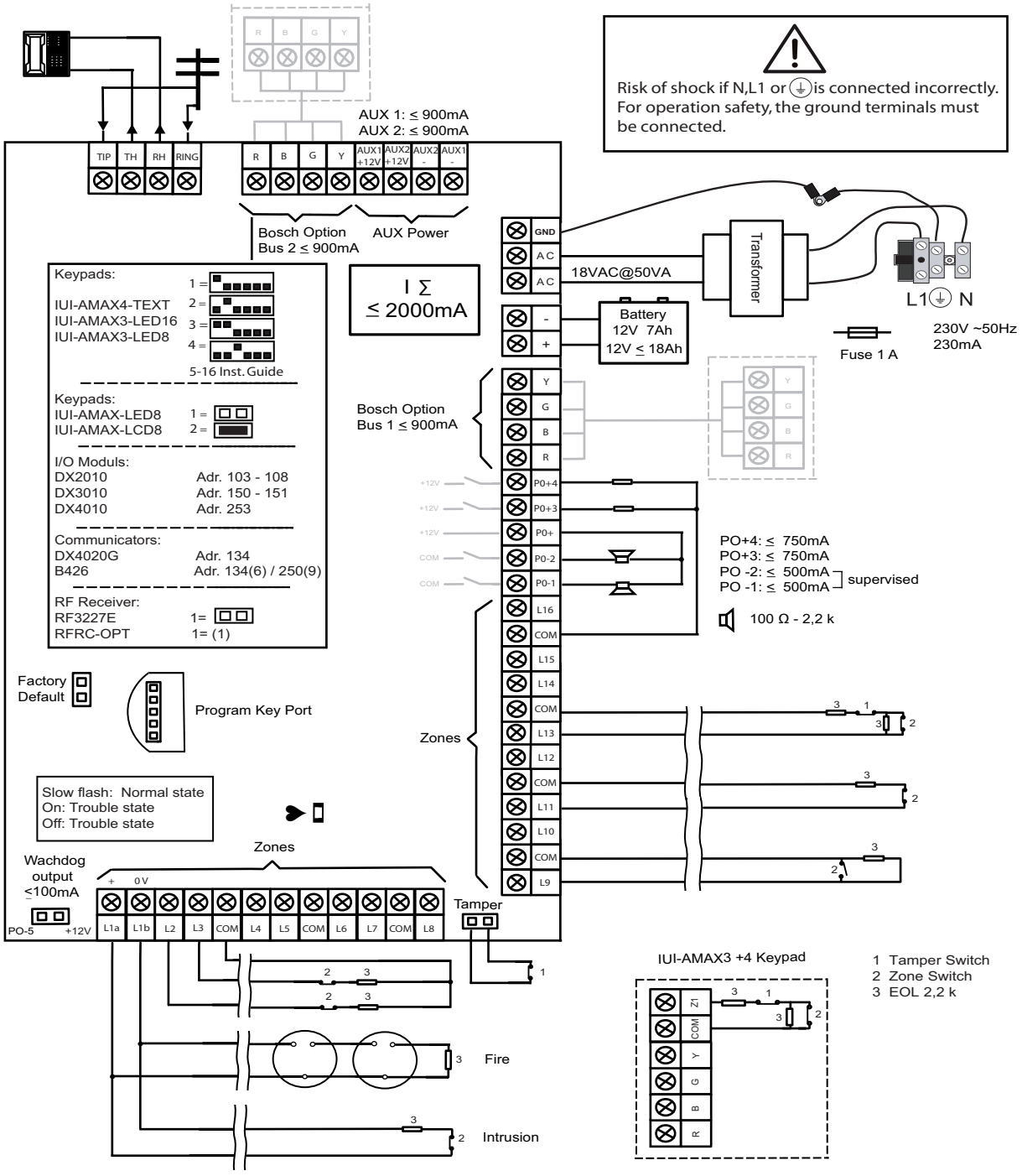
This Quick start guide is provided with the system to give basic information about the system wiring, components, and describe how to simply program and operate the system with IUI-AMAX4-TEXT keypad, IUI-AMAX3-LED16 keypad, IUI-AMAX3-LED8 keypad, ICPKP8-LED keypad, or ICP-KP8L-Icon LCD keypad. As the system includes a large number of programmable functions and options, we suggest reading the complete installation manual. For detailed operation method, please refer to the User Guide.

2 System overview

Information:

Customer:	
Location:	
Account #:	
Installer:	
Date:	

Wiring Diagram



3 Installation

This system / product must be installed by a qualified installer / service person.
During installation and wiring, the control panel power source must be switched-off to prevent equipment damage.

– To switch off the Power Source, an easy accessible circuit breaker must be available.
– The System / product must be connected to a socket-outlet with a protective earthing contact

The User has to disconnect all Telecommunication Network Connectors before unplugging the power adaptor
After the control panel wiring is completed, connect the AC power and backup batteries.
The power light on the keypad will light to show that AC power is connected.

Notice!

- Use only non spillable battery
- Battery must be recycled and disposed of properly
- When battery is not replaced correctly risk of fire explosion or burning

Notice!

The system must be installed and maintained by qualified installer / service person.
Bosch recommends testing the whole alarm system at least once a week.
Maintenance should be done by qualified installer / service person four times a year.

3.1 System Power Up

After the system is powered up, set date and time. Otherwise, the system prompts as fault.
After the system is powered up or reset, it resets to previous arming / disarming status.
To reduce false alarms caused by system power-up (or by power supply restoration after both mains supply and AUX power supply fail), the system is designed to not perform zone test within one minute after power-up.

3.2 System Status Indicator

The system status is indicated by the LED status indicator on the system main board.
Slow flash of red status indicator (repeating on and off with an interval of 1 second) indicates normal system operation.

3.3 Installer and User Code Commands

The system supports programmable 4- to 6-digit Installer and User Code to execute the following programming and operating commands.
The installer commands can be used only when all areas of the system are in disarming status with no alarm activated and when installer access is enabled from user.

Notice!

No identical User Codes are allowed. User Codes are not permitted to be the same as Installer codes.

User Code Commands

Function	Command (Default User Code = 2580 Default Inst. Code = 1234)	Duress User	Arming User	Basic User	Super User	Master User	Instal. User
Switch to Main Keypad	[Code] + [0][0][0] + [#] (Text KP)				√	√	
Switch to Partition 01-16	[Code] + [0][_][_] + [#] (Text KP)				√	√	
AWAY arm	[Code] + [1][1] + [#] / [Code] + [#] / [#] (Quick arm)	√	√	√	√	√	√
STAY arm	[Code] + [1][2] + [#] / [Code] + [*] / [*] (Quick arm)	√	√	√	√	√	√
Disarm	[Code] + [#]	√		√	√	√	√
Display Info (Fault/Tamper..)	[Code] + [-]					√	√
Keypad Emergency Alarm	Long press [1] and [3] or [*] and [#]						
Keypad Fire	Long press [4] and [6]						
Keypad Medical Alarm	Long press [7] and [9]						
Fault/Tamper Inquire	[Code] + [2][1] + [#]				√	√	√
Check All Event Log	[Code] + [2][2] + [#]				√	√	√
Check EN Event Log	[Code] + [2][3] + [#] (Text KP)				√	√	√
Check Dialer Event Log	[Code] + [2][4] + [#] (Text KP)				√	√	√
Zone Bypass/Cancel	[Code] + [3][1] + [#] + [Zone No] [*] + [#] (Bypass)			√	√	√	√
	[Code] + [3][1] + [#] + [Zone No] [*] + [#] (Cancel LED)			√	√	√	√
	[Code] + [3][2] + [#] + [Zone No] [*] + [#](Cancel Text KP)			√	√	√	√
Bypass Inquire	[Code] + [3][3] + [#] (Text KP)			√	√	√	√
Bypass Fault/Tamper	[Code] + [3][4] + [#]			√	√	√	√
Siren test	[Code] + [4][1] + [#]				√	√	√
Communication test	[Code] + [4][2] + [#]				√	√	√
Walk test	[Code] + [4][3] + [#]				√	√	√
Change/View date/time	[Code] + [5][1] + [#]						√
Daylight Saving Time (+1h)	[Code] + [5][2] + [#]				√	√	√
Daylight Saving Time (-1h)	[Code] + [5][3] + [#]				√	√	√
Add / Delete / Change User	[Code] + [5][4] + [#]					√	√
Change Individual Code	[Code] + [5][5] + [#]	√	√	√	√	√	√
Change Domestic Phone No.1	[Code] + [5][6][#] + [_ _ _ _ _ _][#] (LED KP)						√
Change Domestic Phone No.2	[Code] + [5][6][#][#] + [_ _ _ _ _ _][#] (LED KP)						√
Change Domestic Phone No.3	[Code] + [5][6][#][#][#] + [_ _ _ _ _ _][#] (LED KP)						√
Change Domestic Phone No.4	[Code] + [5][6][#][#][#][#] + [_ _ _ _ _ _][#] (LED KP)						√
Change Domestic Phone No.1-4	[Code] + [5][6][#] + [_] + [#] + [_ _ _ _ _ _][#] (Text KP)						√
Call Back	[Code] + [5][7] + [#]						√
Change Language	[Code] + [5][8] + [#] + [_] [_] + [#] 01=EN 02=DE 03=ES 04=FR 05=IT 06=PL 07=NL 08=SE				√	√	√
Reset tamper or fault	[Code] + [6] + [#]				√	√	√
Installer Access	[Code] + [7][1] + [#] (Enable) [Code] + [7][2] + [#] (Disable)					√	
System reset	[Code] + [9][9][8][9] + [#]				√	√	√
Installer program mode	[Code] + [9][5][8] + [#]						√
Exits Progr. mode without save	[9][5][9] + [#] (only in Adress Progr. Mode)						√
Exits Progr. mode with save	[9][6][0] + [#] (only in Adress Progr. Mode)						√
Set Factory Defaults	[9][6][1] + [#] (only in Adress Progr. Mode)						√
Copy control panel data to progr. Key	[9][6][2] + [#] (only in Adress Progr. Mode)						√
Copy progr. key data to control panel.	[9][6][3] + [#] (only in Adress Progr. Mode)						√
Display FW version	[9][9][9] + [#] (only in Adress Progr. Mode)						√

Figure 3.1: User Code Commands

3.4 Prerequisites for Certification conform Installation

EN 50131-3 Grade 2, Environmental Class 2

- System must be placed inside the monitored area on a stable surface.
- Keypads must be mounted to the inner side of the monitored area.
- Once the system is tested and ready to use, Enclosure Door and Accessory Enclosures must be secured with the provided screws
- To realize EN conform Alarm Indication and Transmission, one of the following options must be used
  - Two supervised Warning devices (PO-1 PO-2 & PO+) and one ATS 2 Communicator (onboard Dialer, B426, D4020 or DX4020G)
  - One self powered Warning Device and one ATS 2 Communicator (onboard Dialer, B426, D4020 or DX4020G)
  - Two Communicators, one ATS 2 (onboard Dialer, B426, D4020 or DX4020G) and one ATS 1 (onboard Dialer, B426, D4020 or DX4020G)
  - One ATS 3 Communicator (DX4020 or B426)

All Communicators must be connected to a Central Monitoring Station.
Only the onboard Dialer and the Option Bus Communicators can be used for EN Alarm Transmission.

- one 12V/7AH or one 12V/18Ah Battery must be connected to the System.
- max current for all components with a 7Ah Battery = 550mA

max current for all components with a 18Ah Battery = 1500mA
(standby 12h, recharge Battery 80% in 72h)
(PCB=l00mA, IUI-AMAX Keypads=31mA, DX2010=35mA, DX3010=10mA, B426=100mA, DX4020G=65mA, RF3227E=30mA, RFRC-OPT=30mA)

- To realize EN conform Arming procedure an indication of arm/disarm status must be accessible from outside the monitored area (this indication can be time limited)
- To realize EN conform Access to the Monitored Area, one of the following options must be used
  - Opening a door (to the entry/exit route) must start the entry procedure
  - Indication of arm/disarm Status
  - Access to the monitored Area (doors not starting entry procedure) is prevented (e.g. door strike, mechanically)

The Enclosure lock can only be used in non EN setup.

- Telephone arming can only be used in non EN setup.
- Accessory Modules, except input module (DX2010) can be used only inside the enclosure (on the adapter plate).
- When input module (DX2010) is used in the external enclosure (AE20) the tamper skirt must be installed on the PCB of input module (DX2010)
- The panel must be programmed with the EN settings indicated on the programming sheet. When the panel is set without EN parameters, the EN Indication (on Label) must be removed.

4 Configuration

The control panel programming options are stored in a non-volatile flash memory. This memory has all relevant configuration and user-specific data even after a total power loss. Because the data retention time is quite long without power, reprogramming is not required after powering up the control panel.
Programming with keypad is possible only when all of zones in the system are in disarmed status and no alarm is activated. Installer Code is required for programming.

Notice!
It is not recommended to use other keypads or methods simultaneously to program the system while programming with the current keypad.

4.1 Programming with Keypad

4.1.1 LCD Keypad Menu Programming

1. Enable Text keypad and confirm that the system is in disarmed status.
2. Enter Installer Code + [958] and press [#] to get to [Installer Menu].
3. Programming: Select the menu and operate according to the menu prompt.
   - Down to the next menu: Press [▼]
   - Up to the previous menu: Press [▲]
   - Enter menu or confirm input: Press [#]
   - Back to the menu or delete a single input: Press [-]; or press and hold [-] for 3 seconds to end the input state and get back to the menu.
   - Operate according to the menu prompt. Select menu and enter data for specific programming items according to the display on the keypad to complete programming, step by step.
   - The data value ranges in the menu programming and address programming are the same. For specific options and value ranges, see contents in *LCD Keypad Menu Programming, page 10*.
4. After completing input, press [-] to get back to the previous menu. Complete all programming input by repeating step 3 and press [-] to get back to the current main menu level by level.
5. Press [-] to enter menu options. It is optional to save or not to save the programming information.
6. Select [Save and Exit] and press [#] to save system programming data, exit menu programming and reset system.

4.1.2 LED/Icon LCD Keypad Address Programming

1. Enable LED keypad or Icon LCD keypad and make sure that the system is in disarmed status.
2. Enter programming mode: Enter the Installer Code (the default is 1234) + [958] and press [#].
3. Programming: Move to the required address and enter the value for each data bit (data value).
   - After entering programming mode, the system directly enters the programming data in the address 0000 (Receiver 1 telephone number or the initial digit of the IP address), then

- Enter the next address: Press [#]
- Back to the previous address: Press [*]
- Skip to other address: Enter the address code and press [#]
- Set new data in the address: Enter new data values and press [*]
- Enter new data values as required. Otherwise, the factory Default will be used in the system.

4. Exit programming mode: Enter Command [9] [6] [0] and press [#] to save programming data. Entering [9] [5] [9] + [#] means not to save the programming data.

For LED/Icon LCD keypad, the programming data is displayed by the keypad indicator. See *Programming Data Indicators, page 11*.

Notice!
For LED/Icon LCD keypad, when the programming data exceeds the display range of the keypad indicator, there will be no display on the keypad.

Programming Data Indicators

Data	**Zone Indicators**								
Value	1	2	3	4	5	6	7	8	**Mains**
0									
1	X								
2		X							
3			X						
4				X					
5					X				
6						X			
7							X		
8								X	
9	X							X	
10									X
11	X								X
12		X							X
13			X						X
14				X					X
15					X				X

4.2 Reset to Factory Default Settings

The factory Default can be reset with the ‘Resetting to Factory Default’ pads on the main board of the control panel.

1. Disconnect the AC power supply and backup battery to the control panel.
2. Short-circuit the ‘Resetting to Factory Default’ pads.
3. These set of pads are located at the top on the printed circuit board of the control panel.

4. Powering up is done when the bonding pads are short-circuited.
5. Quick flash of the red LED indicator on the printed circuit board of the control panel indicates that the factory Default will be reset.
6. All programming parameters are reset to factory default immediately after releasing the short-circuited bonding pads.

Notice!
If the DEFAULT pads are short-circuited for over 10 seconds after power-up, the control panel will discard resetting to factory Default.

4.3 LCD Menu Programming

For menu programming with LCD keypad, see Section 4.1.1 LCD Keypad Menu Programming on page 10.
Use [▼] and [▲] to move main menus, submenus and secondary submenus up or down.
Use [-] and [#] to move main menus, submenus and secondary submenus left or right.

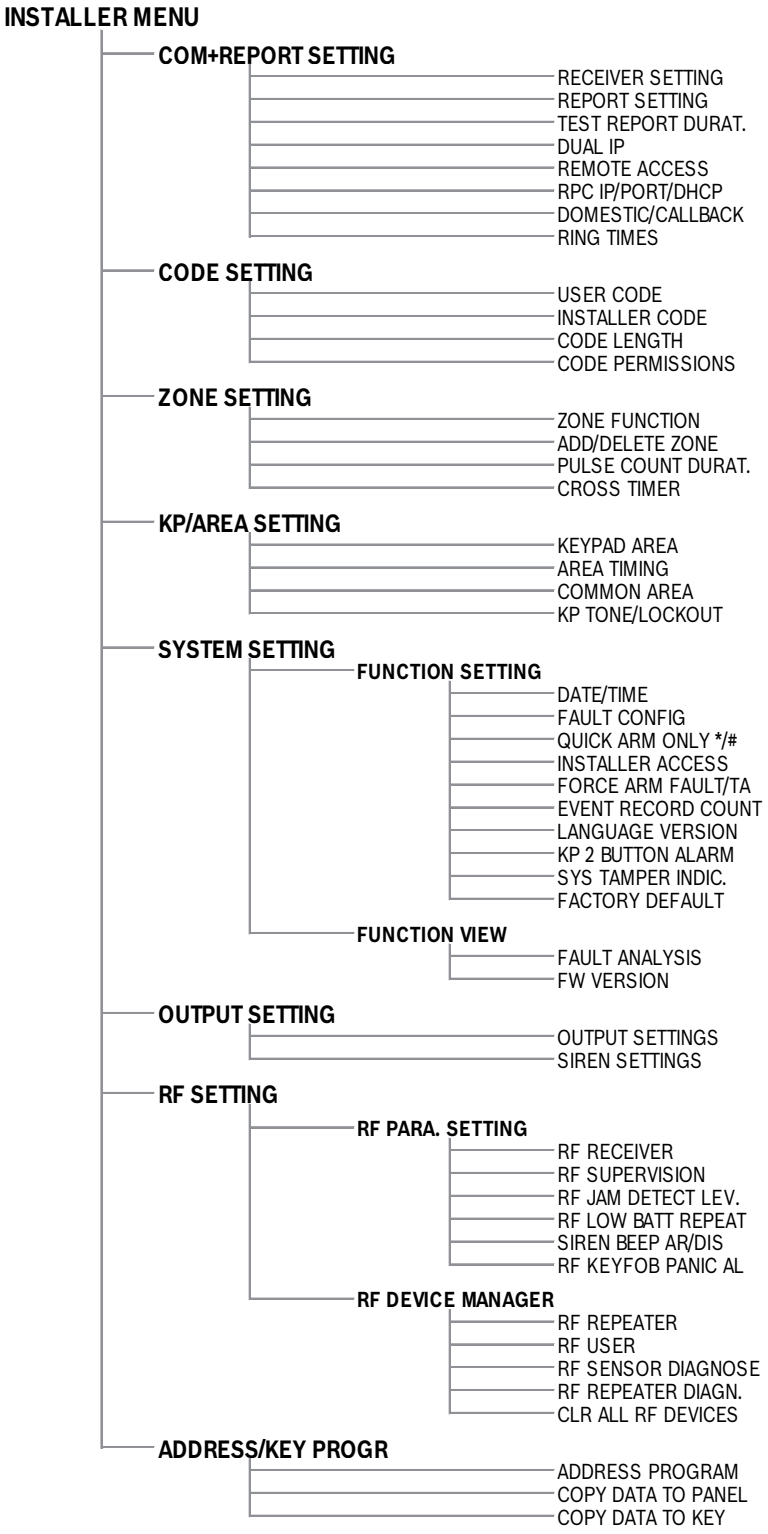


Figure 4.1: Menu Structure

Warning!

Programming parameters must be set within the value range in the programming address. Otherwise, the system will turn to indeterminate status.

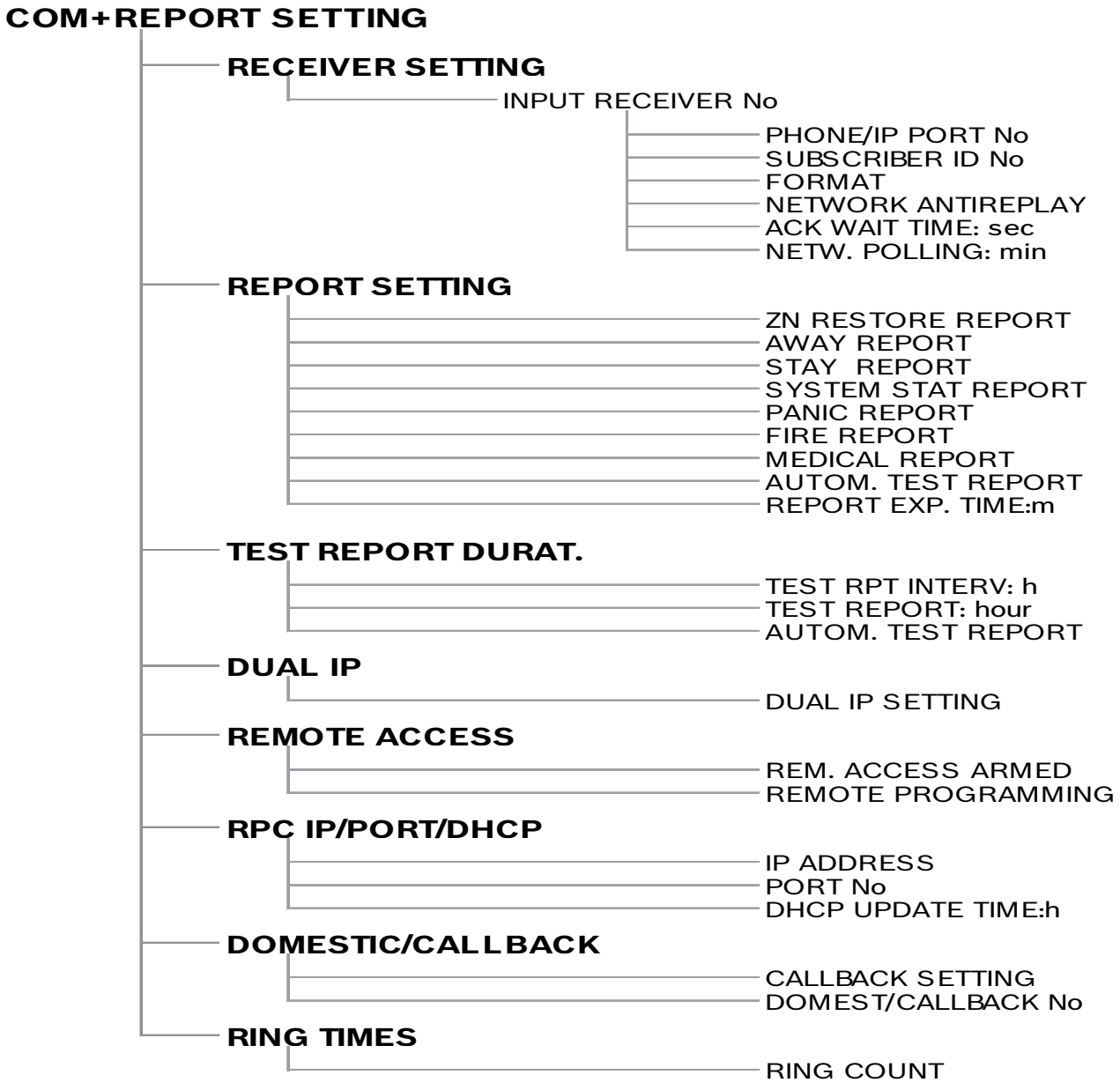


Figure 4.2: Com+Report

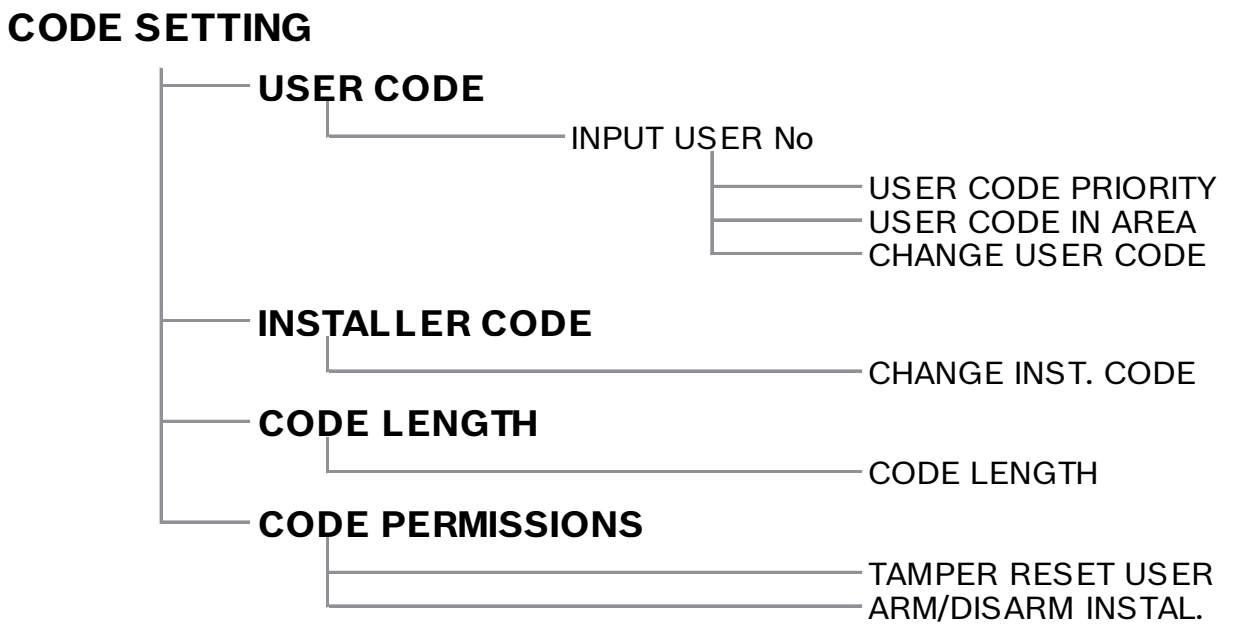


Figure 4.3: Code Setting

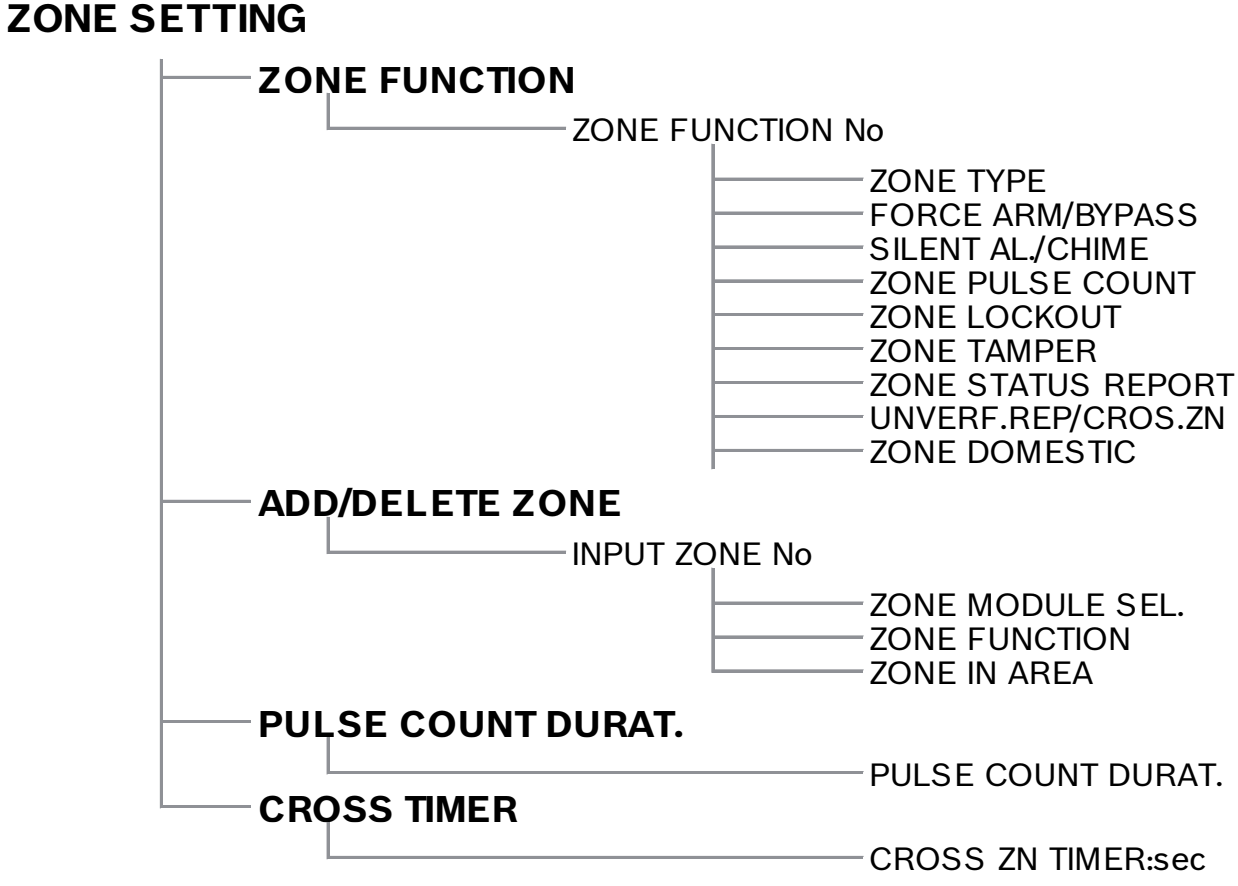


Figure 4.4: Zone Setting

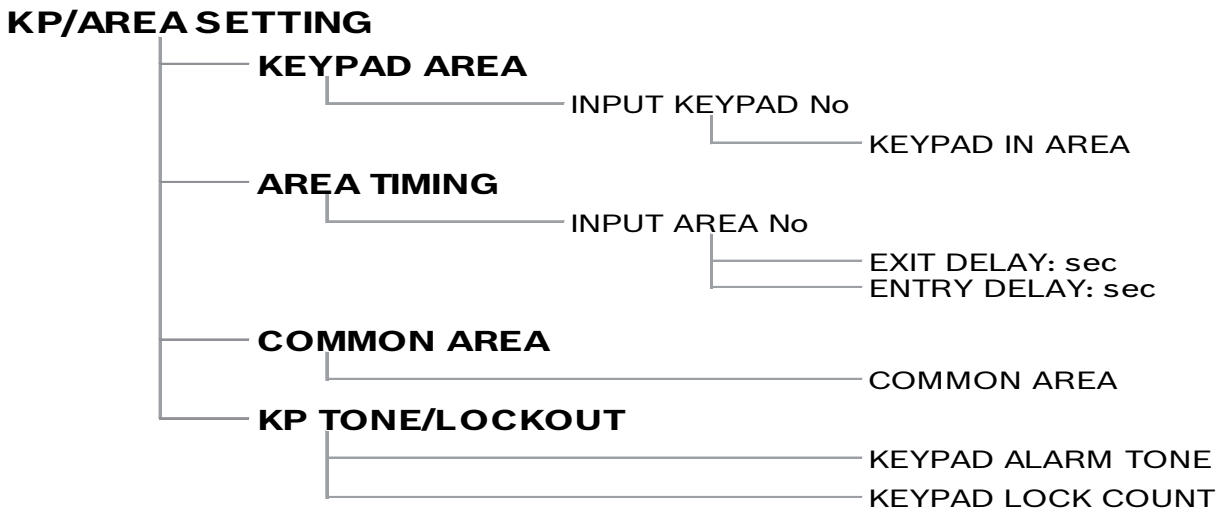


Figure 4.5: KP Area Setting

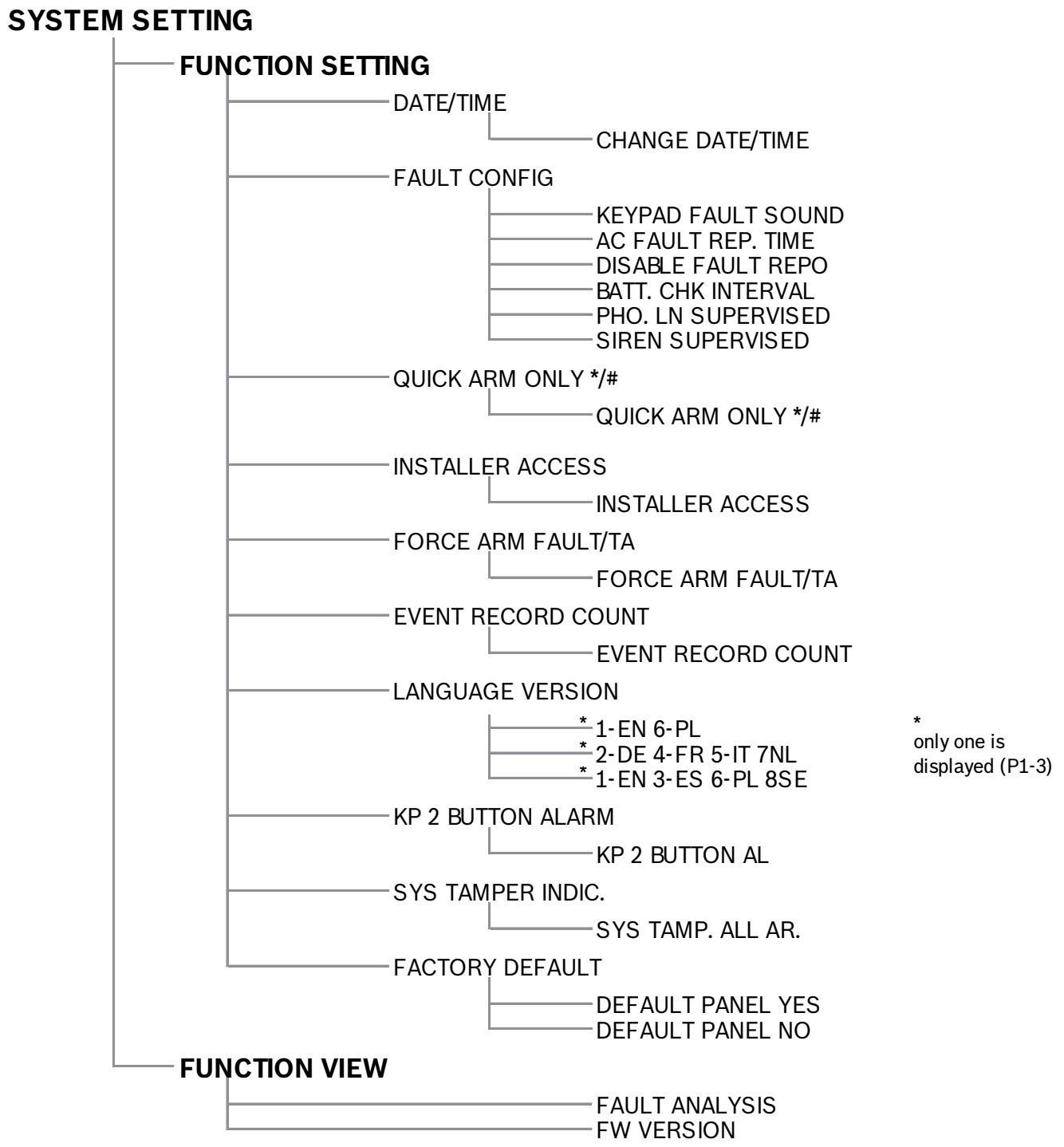


Figure 4.6: System Setting

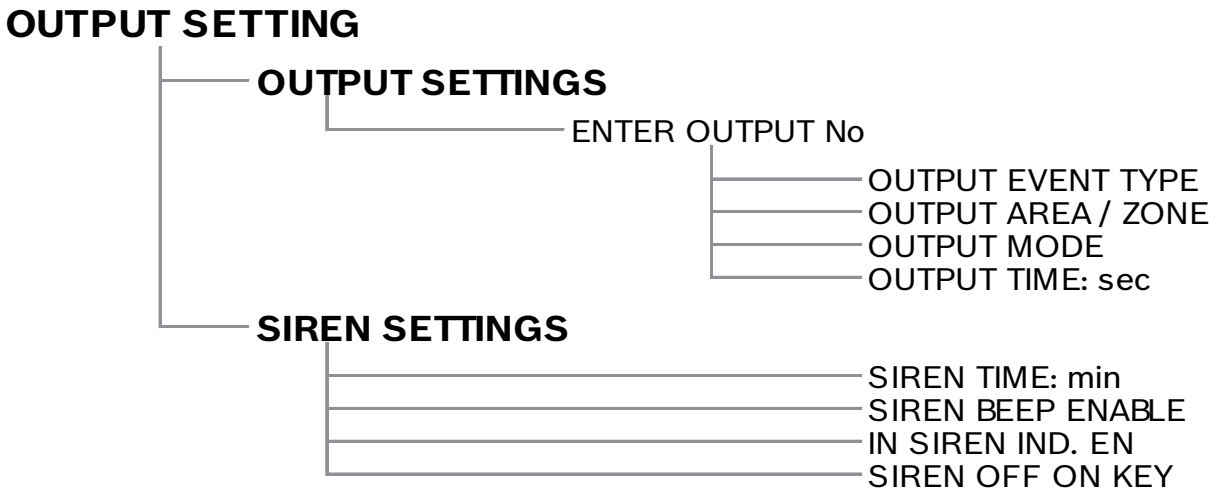


Figure 4.7: Output Setting

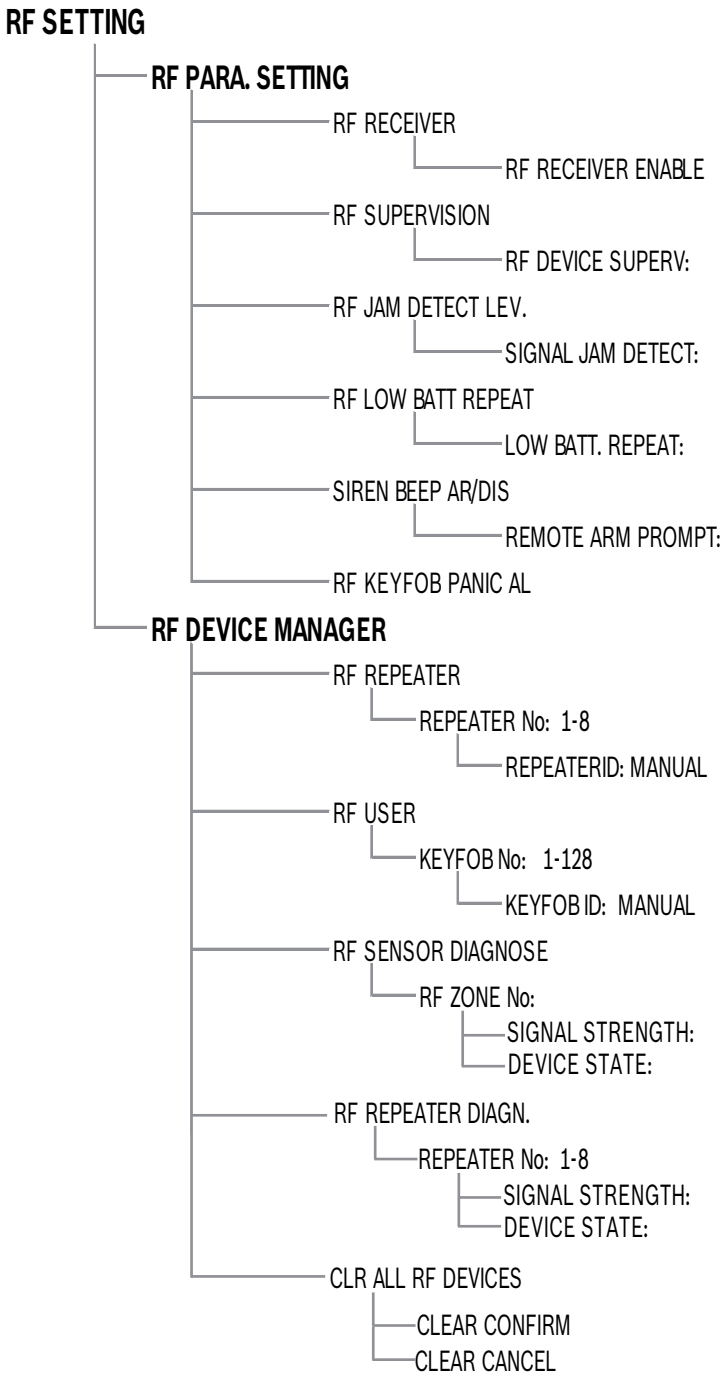


Figure 4.8: RF Setting

Figure 4.9: Address Key Program

4.4 Address Programming

4.4.1 Communication and Report Setting

Report Options	Address	Default	
Telephone Number / IP Address and Port for Receiver 1	0000 - 0016	15	
Subscriber ID Number	0017 - 0022	000000	
Transmission Format for Receiver (0 = Not used, 1 = Contact ID, 2= SIA, 3 = Conettix IP)	0023	1	
Anti-replay for Receiver (0 = Disabled, 1 = Enabled)	0024	1 EN=1	
Acknowledge Wait Time for Receiver (05 - 99 seconds)	0025 - 0026	05	
Network Polling Time for Receiver (001 - 999 minutes)	0027 - 0029	001	
Telephone Number / IP Address and Port for Receiver 2	0030 - 0046	15	
Subscriber ID Number	0047 - 0052	000000	
Transmission Format for Receiver (0 = Not used, 1 = Contact ID, 2= SIA, 3 = Conettix IP)	0053	1	
Anti-replay for Receiver (0 = Disabled, 1 = Enabled)	0054	1 EN=1	
Acknowledge Wait Time for Receiver (05 - 99 seconds)	0055 - 0056	05	
Network Polling Time for Receive (001 - 999 minutes)	0057 - 0059	001	
Telephone Number / IP Address and Port for Receiver 3	0060 - 0076	15	
Subscriber ID Number	0077 - 0082	000000	
Transmission Format for Receiver (0 = Not used, 1 = Contact ID, 2= SIA, 3 = Conettix IP)	0083	1	
Anti-replay for Receiver (0 = Disabled, 1 = Enabled)	0084	1 EN=1	
Acknowledge Wait Time for Receiver (05 - 99 seconds)	0085 - 086	05	
Network Polling Time for Receiver (001 - 999 minutes)	0087 - 089	001	
Telephone Number / IP Address and Port for Receiver 4	0090 - 0106	15	
Subscriber ID Number	0107 - 0112	000000	
Transmission Format for Receiver (0 = Not used, 1 = Contact ID, 2= SIA, 3 = Conettix IP)	0113	1	
Anti-replay for Receiver (0 = Disabled, 1 = Enabled)	0114	1 EN=1	
Acknowledge Wait Time for Receiver (05 - 99 seconds)	0115 - 0116	05	
Network Polling Time for Receiver (001 - 999 minutes)	0117 - 0119	001	

Notice!
Enter telephone number when the Contact ID or SIA format is selected; enter IP address and port number when the Bosch Network format is selected. Anti-replay for Receiver, Acknowledge Wait Time for Receiver and Network Polling Time for Receiver are valid only when using Bosch Network format.

Setting Telephone Number
For telephone number programming, See *Telephone Programming Parameters, page 26*
Setting IP Address and Port Number
The IP address is programmed with the 17 digits: Digits 1 - 12 for the IP address of the receiver; 13 - 17 for the port.
It is not necessary to enter dots in programming, but 0 must be entered ahead of the digit to make up 3 digits when each IP address unit is fewer than 3 digits. 0 must be entered ahead of the digit to make up 5 digits when the port is fewer than 5 digits.
Example:
Receiver IP address 128.73.168.7, port 7700, should be made as: 128 073 168 007 07700

Dual IP Settings

Option	Address	Default	
0 = 1 IP module, 1 = 2 IP modules	0120	1	

Notice!
Dual IP Settings are valid only when used in the Connetix IP format. This programming option is valid for B426 and ITS-DX4020-G modules. ITS-DX4020-G cannot be set as No. 2 IP module.

Module	Address
ITS-DX4020-G module or B426- module 1	134
B426 module 2	250

System Reporting

Option	Address	Default	
Zone Status Restore Report	0121	6	
AWAY Arming / Disarming Report	0122	6 EN=1/5/6/7	
STAY Arming / Disarming Report	0123	6 EN=1/5/6/7	
System Status Report (Zone fail, comm. fail, telephone line fail, AC fail, low batterie...etc.)	0124	6 EN=1/5/6/7	
Keypad Panic Alarm Report	0125	0	
Keypad Fire Alarm Report	0126	0	
Keypad Medical Alarm Report	0127	0	

Automatic Test Report	0128	6 EN=1/5/6/7	
0 = No report, 1 = Receiver 1, 2 = Receiver 2, 3 = Receiver 3, 4 = Receiver 4, 5 = Receiver 1,2,3 and 4, 6 = Receiver 1 (2,3 and 4 for backup), 7 = Receiver 1 (2 for backup) and receiver 3 (4 for backup)			

Notice!

When the Transmission Format for Receiver in the receiver programming is set to 0 (not used), i.e., setting the report option as sending report to a receiver, then the alarm control panel will actually not send any report.

Automatic Test Report

Address 0129 - 0134	**Address**	**Default**	
Test Report Time: Interval 00 = Do not use timing report , 01 - 99 = 1 - 99 hours	0129 - 0130	24 VDS-A EN=1=24	
Report Time: Hour 00 - 23 = 0 - 23 hours, Others = Do not use real-time report	0131 - 0132	99	
Report Time: Minute 00 - 59 = 0 - 59 minutes, Others = Do not use real-time report	0133 - 0134	99	

Report Expiry Time

Address 0135 - 0137	**Address**	**Default**	
000 = No time limit, 001 - 255 = 1 - 255 minutes	0135 - 0137	000 VDS-A EN=000	

Installer Access Until Next Arming

Address 0138	**Address**	**Default**	
0 = disabled, 1 = enabled	0138	0 VDS-A=1	

Force Arm When System Is In Trouble Condition

Address 0139	**Address**	**Default**	
0 = disabled, 1 = enabled	139	1 VDS-A EN=0	

Siren / PO 1+2 Supervision

Address 0140	**Address**	**Default**	
0 = disabled, 1 = PO1 enabled, 2 = PO2 enabled, 3 = PO1+2 enabled	0140	0 VDS-A EN=3	

Keypad 2 Button Alarm

Address 0141	Address	Default	
0 = disabled, 1 = enabled	0141	0	

Phone Line Monitor

Address 0142	Address	Default	
0 = disabled, 1 = enabled	0142	0 VDS-A EN=1	

Beep For Warning Devices

Address 0143	Address	Default	
0 = disabled, 1 = enabled	0143	1	

Ring Count

Address 0144	Address	Default	
0 = Panel does not answer 1 - 13 = Number of rings until the control panel responds 14 = Call the control panel and allow the phone to ring no more than twice and hang up. Wait a minimum of 8 sec and call the control panel again. The control panel answers on the first ring. 15 = Call the control panel and allow the phone to ring no more than four times and then hang up. If you call again within 45 sec, the control panel answers the call on the first ring.	0144	14	

Remote Programming

Address 0145	Address	Default	
0 = disabled, 1 = enabled	0145	1 VDS-A=0	

Callback Telephone Number

Address 0146 - 0161	Address	Default	
See *Telephone Programming Parameters, page 26*	0146 - 0161	15	

Remote PC Setting

Address 0162 - 0179	Address	Default	
RPC IP No	0162 - 0173	15	
RPC Port Number	0174 - 0178	15	
Control Panel DHCP Update Time (hours)	0179	15	

RPC is the remote programming computer equipped with remote programming software.

Remote Access To Panel When Panel Is Armed

Address 0180	Address	Default	
0 = Disable, 1 = Enable ; Default 1	0180	1	

Keypad Language

Address 0181	Address	Default	
0 = Default, 1 = EN, 2 = DE, 3 = ES, 4 = FR, 5 = IT, 6 = PL, 7 = NL, 8 = SE	0181	0	

Tamper Reset For User

Address 0182	Address	Default	
0 = Disable, 1 = Enable	0182	1	

Arm / Disarm For Installer

Address 0183	Address	Default	
0 = Disable, 1 = Enable	0183	0	

Zone Tamper Bypass when DEOL Zone is Bypassed

Address 0184	Address	Default	
0 = Disable, 1 = Enable	0184	1 0=Incert	

– This function is only accessible in address programming

Call Back Setting

Address 0196	Address	Default	
0 = Disable, 1 = Enable	0196	0	

Silence Warning Device On Disarm

Address 0197	Address	Default	
0 = Disable, 1 = Enable	0197	1	

Zone Pulse Count Duration

Address 0198 - 0200	Address	Default	
0 = Disable, 1-999sec = Duration	0198 - 200	060 VDS-A EN=000	

Event Record Count per Set/Unset Period

Address 0201	Address	Default	
3 - 10	0201	10 EN=10	

System Tamper Indication In Area

Address 0202	Address	Default	
0 = Area 1, 1 = All Areas	0202	0	

Internal Siren Beep As Indication

Address 0203	Address	Default	
0=Disable, 1=enabled	0203	0	

Battery Check Interval

Address 0204	Address	Default	
0 = Disabled , 1-15 minutes	0204	15 VDS-A EN=15	

Cross Zone Timer

Address 0205 - 0207	Address	Default	
001 - 999 seconds	0205 - 0207	060	

AC Power Supply Fault Report Delay

Address 0208 - 0209	Address	Default	
99 = Disabled, 00 - 98 minutes	0208 - 0209	60 VDS-A EN=00-60	

Domestic Call Telephone Number

Address 1618 - 1682	Address	Default	
Domestic Call Telephone Number 1	1618 - 1633	15	
Domestic Call Telephone Number 2	1634 - 1649	15	
Domestic Call Telephone Number 3	1650 - 1665	15	
Domestic Call Telephone Number 4	1666 - 1681	15	
See *Telephone Programming Parameters, page 26*			

If the default 15 is set to the initial digit of the telephone number, domestic telephone alarm function is disabled; If set to other positions, it marks the end of the telephone number.

Telephone Programming Parameters

Telephone Number Required	Programming Input Key	Telephone Number Required	Programming Input Key
0	0	7	7
1	1	8	8
2	2	9	9
3	3	*	11
4	4	#	12
5	5	4 seconds pause	13
6	6	15	15

Table 4.1: Telephone Programming Parameters

See also

– *Communication and Report Setting , page 26*

4.4.2 Zone Programming

Zone Functions

The system supports up to 64 zones. Each zone can select one of 16 zone functions as well as Areas and modules.

Address 0210 - 0361			
Zone Function # 00	**Address**	**Default**	
Zone Type	0210 - 0211	0 0	
Force Arm / Zone Bypass	0212	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0213	0 VDS-A EN=0/2	
Zone Pulse Count	0214	0 VDS-A EN=0	
Zone Lockout	0215	3	
Zone Tamper (DEOL)	0216	1	
Zone Status Report	0217	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0218	0 VDS-A EN=0	
Domestic No.	0219	0	
Zone Function # 01	**Address**	**Default**	
Zone Type	0220 - 0221	0 1	
Force Arm / Zone Bypass	0222	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0223	0 VDS-A EN=0/2	
Zone Pulse Count	0224	0 VDS-A EN=0	
Zone Lockout	0225	3	

Zone Tamper (DEOL)	0226	1	
Zone Status Report	0227	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0228	0 VDS-A EN=0	
Domestic No.	0229	0	
Zone Function # 02	**Address**	**Default**	
Zone Type	0230 - 0231	0 2	
Force Arm / Zone Bypass	0232	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0233	0 VDS-A EN=0/2	
Zone Pulse Count	0234	0 VDS-A EN=0	
Zone Lockout	0235	3	
Zone Tamper (DEOL)	0236	1	
Zone Status Report	0237	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0238	0 VDS-A EN=0	
Domestic No.	0239	0	
Zone Function # 03	**Address**	**Default**	
Zone Type	0240 - 0241	0 3	
Force Arm / Zone Bypass	0242	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0243	0 VDS-A EN=0/2	
Zone Pulse Count	0244	0 VDS-A EN=0	
Zone Lockout	0245	3	
Zone Tamper (DEOL)	0246	1	
Zone Status Report	0247	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0248	0 VDS-A EN=0	
Domestic No.	0249	0	
Zone Function # 04	**Address**	**Default**	
Zone Type	0250 - 0251	0 4	
Force Arm / Zone Bypass	0252	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0253	0 VDS-A EN=0/2	
Zone Pulse Count	0254	0 VDS-A EN=0	
Zone Lockout	0255	3	
Zone Tamper (DEOL)	0256	1	
Zone Status Report	0257	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0258	0 VDS-A EN=0	
Domestic No.	0259	0	

Zone Function # 05	**Address**	**Default**	
Zone Type	0260 - 0261	0 5	
Force Arm / Zone Bypass	0262	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0263	0 VDS-A EN=0/2	
Zone Pulse Count	0264	0 VDS-A EN=0	
Zone Lockout	0265	3	
Zone Tamper (DEOL)	0266	1	
Zone Status Report	0267	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0268	0 VDS-A EN=0	
Domestic No.	0269	0	
Zone Function # 06	**Address**	**Default**	
Zone Type	0270 - 0271	0 6	
Force Arm / Zone Bypass	0272	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0273	0 VDS-A EN=0/2	
Zone Pulse Count	0274	0 VDS-A EN=0	
Zone Lockout	0275	3	
Zone Tamper (DEOL)	0276	1	
Zone Status Report	0277	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0278	0 VDS-A EN=0	
Domestic No.	0279	0	
Zone Function # 07	**Address**	**Default**	
Zone Type	0280 - 0281	0 7	
Force Arm / Zone Bypass	0282	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0283	0 VDS-A EN=0/2	
Zone Pulse Count	0284	0 VDS-A EN=0	
Zone Lockout	0285	3	
Zone Tamper (DEOL)	0286	1	
Zone Status Report	0287	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0288	0 VDS-A EN=0	
Domestic No.	0289	0	
Zone Function # 08	**Address**	**Default**	
Zone Type	0290 - 0291	0 8	
Force Arm / Zone Bypass	0292	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0293	0 VDS-A EN=0/2	

Zone Pulse Count	0294	0 VDS-A EN=0	
Zone Lockout	0295	3	
Zone Tamper (DEOL)	0296	1	
Zone Status Report	0297	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0298	0 VDS-A EN=0	
Domestic No.	0299	0	
Zone Function # 09	**Address**	**Default**	
Zone Type	0300 - 0301	0 9	
Force Arm / Zone Bypass	0302	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0303	0 VDS-A EN=0/2	
Zone Pulse Count	0304	0 VDS-A EN=0	
Zone Lockout	0305	3	
Zone Tamper (DEOL)	0306	1	
Zone Status Report	0307	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0308	0 VDS-A EN=0	
Domestic No.	0309	0	
Zone Function # 10	**Address**	**Default**	
Zone Type	0310 - 0311	1 0	
Force Arm / Zone Bypass	0312	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0313	0 VDS-A EN=0/2	
Zone Pulse Count	0314	0 VDS-A EN=0	
Zone Lockout	0315	3	
Zone Tamper (DEOL)	0316	1	
Zone Status Report	0317	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0318	0 VDS-A EN=0	
Domestic No.	0319	0	
Zone Function # 11	**Address**	**Default**	
Zone Type	0320 - 0321	1 1	
Force Arm / Zone Bypass	0322	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0323	0 VDS-A EN=0/2	
Zone Pulse Count	0324	0 VDS-A EN=0	
Zone Lockout	0325	3	
Zone Tamper (DEOL)	0326	1	
Zone Status Report	0327	6 VDS-A EN=1/5/6/7	

Unverified Alarm Report / Cross Zone	0328	0 VDS-A EN=0	
Domestic No.	0329	0	
Zone Function # 12	**Address**	**Default**	
Zone Type	0330 - 0331	1 2	
Force Arm / Zone Bypass	0332	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0333	0 VDS-A EN=0/2	
Zone Pulse Count	0334	0 VDS-A EN=0	
Zone Lockout	0335	3	
Zone Tamper (DEOL)	0336	1	
Zone Status Report	0337	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0338	0 VDS-A EN=0	
Domestic No.	0339	0	
Zone Function # 13	**Address**	**Default**	
Zone Type	0340 - 0341	1 3	
Force Arm / Zone Bypass	0342	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0343	0 VDS-A EN=0/2	
Zone Pulse Count	0344	0 VDS-A EN=0	
Zone Lockout	0345	3	
Zone Tamper (DEOL)	0346	1	
Zone Status Report	0347	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0348	0 VDS-A EN=0	
Domestic No.	0349	0	
Zone Function # 14	**Address**	**Default**	
Zone Type	0350 - 0351	1 4	
Force Arm / Zone Bypass	0352	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0353	0 VDS-A EN=0/2	
Zone Pulse Count	0354	0 VDS-A EN=0	
Zone Lockout	0355	3	
Zone Tamper (DEOL)	0356	1	
Zone Status Report	0357	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0358	0 VDS-A EN=0	
Domestic No.	0359	0	
Zone Function # 15	**Address**	**Default**	
Zone Type	0360 - 0361	1 5	

Force Arm / Zone Bypass	0362	3 VDS-A EN=0/2	
Silent Alarm / Chime Mode	0363	0 VDS-A EN=0/2	
Zone Pulse Count	0364	0 VDS-A EN=0	
Zone Lockout	0365	3	
Zone Tamper (DEOL)	0366	1	
Zone Status Report	0367	6 VDS-A EN=1/5/6/7	
Unverified Alarm Report / Cross Zone	0368	0 VDS-A EN=0	
Domestic No.	0369	0	

For the value range of each zone function option, See *Zone Functions, page 26*

Zone Function Option

Zone Function Option		**Description**
Zone Type	00	Zone Not Used
	01	Instant
	02	Interior Instant
	03	Delay
	04	Interior Delay
	05	Follower
	06	Interior Follower
	07	24-Hour
	08	Key-Switch Toggle
	09	Key Switch on/off
	10	24 Hour Panic
	11	24 Hour Fire
	12	24 Hour Fire With Verification
	13	Tamper
	14	Bolt Contact
	15	External Fault
	16	Delay Exit
	17	Interior Delay Exit
	18	Technical Alarm
	19	Reset
	20	Instant Report
	21	Reserved

Force Arm / Bypass	0	Disabled
	1	Force Arm
	2	Bypass
	3	All
Silent Alarm / Chime Mode	0	Disabled
	1	Silent Alarm
	2	Chime Mode
	3	All
Zone Pulse count	0	Disabled
	1-9	1-9 Pulses
Zone Lockout	0	Disabled
	1	1 Times Alarm Lockout
	2	3 Times Alarm Lockout
	3	6 Times Alarm Lockout
	4	Alarm Duration
Zone Tamper (DEOL)	0	Disabled
	1	Enabled
Zone Status Report	0	No Report Required
	1	Receiver 1
	2	Receiver 2
	3	Receiver 3
	4	Receiver 4
	5	Receiver 1, 2, 3 and 4
	6	Receiver 1 (2, 3 and 4 for backup)
	7	Receiver 1 (2 for backup) and Receiver 3 (4 for backup)
Unverified Alarm Report / Cross Zone	0	Disabled
	1	Unverified Alarm Report
	2	Cross Zone
	3	All
Domestic Call		Follow 'Alarm report' Option's Logic. Range 0-7
	0	No Reports Allowed
	1	Report to Destination 1
	2	Report to Destination 2
	3	Report to Destination 3

	4	Report to Destination 4
	5	Report to Destination 1 ,2, 3, 4
	6	Report to Destination 1 (2, 3, 4 backup)
	7	Report to Destination 1 (2 Backup) and 3 (4 backup)

Common Area Settings

Option	Address	Default	Value Range
Common Area Type	0370	0	0 = none 1 = Follow Partition 2 2 = Follow Partition 2-3 3 = Follow Partition 2-4 4 = Follow Partition 2-5 5 = Follow Partition 2-6 6 = Follow Partition 2-7 7 = Follow Partition 2-8 8 = Follow Partition 2-9 9 = Follow Partition 2-10 10 = Follow Partition 2-11 11 = Follow Partition 2-12 12 = Follow Partition 2-13 13 = Follow Partition 2-14 14 = Follow Partition 2-15 15 = Follow Partition 2-16

Notice!
In case of common Area, the Area 1 will be the common Area. When there is only 1 Area in the system, the address 0370 can only be programmed as 1.

Zone Area, Zone Functions and Module Selection

Zone No	Area Selection Address	Default	Zone Function Selection Address	Default	Module Selection Address	Default
1	0678 - 0679	01	0806	3	0870	0
2	0680 - 0681	01	0807	1	0871	0
3	0682 - 0683	01	0808	1	0872	0
4	0684 - 0685	01	0809	1	0873	0
5	0686 - 0687	01	0810	1	0874	0
6	0688 - 0689	01	0811	1	0875	0
7	0690 - 0691	01	0812	1	0876	0
8	0692 - 0693	01	0813	1	0877	0
9	0694 - 0695	01	0814	0	0878	0
10	0696 - 0697	01	0815	0	0879	0
11	0698 - 0699	01	0816	0	0880	0
12	0700 - 0701	01	0817	0	0881	0
13	0702 - 0703	01	0818	0	0882	0
14	0704 - 0705	01	0819	0	0883	0
15	0706 - 0707	01	0820	0	0884	0
16	0708 - 0709	01	0821	0	0885	0
	Value Range: 00 = zone not used, 1 - 16 = Area 1- 16		Value Range:0 –15. See Section *Zone Functions, page 26*		0 = On-board zone, 1 = Keypad zone 2 = DX2010 zone 3 = RF Device 15 = not used	

Notice!
Zones may be indicated on keypads with a number that are different from zone number used for programming and hardware input.

Example:
In a one area system keypad zone number 17 should be indicated as Zone number 16 (e.g. visible on 16 zone LED keypad). After disabling zone 16 * (or another one in range 1 to 16) zone number 17 is indicated on keypad as number 16.
* change Area Selection to 00 = zone not used.
For more information, also for multi area system refer to AMAX panel 4000 Installation Manual.

Notice!
When a zone is assigned to RF Device (3), then the dedicated On-board zone is not available.

Zone No	Area Selection Address	Default	Zone Function Selection Address	Default	Module Selection Address	Default
17	0710 - 0711	00	822	1	886	15
18	0712 - 0713	00	823	1	887	15
19	0714 - 0715	00	824	1	888	15
20	0716 - 0717	00	825	1	889	15
21	0718 - 0719	00	826	1	890	15
22	0720 - 0721	00	827	1	891	15
23	0722 - 0723	00	828	1	892	15
24	0724 - 0725	00	829	1	893	15
25	0726 - 0727	00	830	1	894	15
26	0728 - 0729	00	831	1	895	15
27	0730 - 0731	00	832	1	896	15
28	0732 - 0733	00	833	1	897	15
29	0734 - 0735	00	834	1	898	15
30	0736 - 0737	00	835	1	899	15
31	0738 - 0739	00	836	1	900	15
32	0740-0741	00	837	1	901	15
	Value Range: 00 = zone not used, 1 - 16 = Area 1- 16		Value Range:0 –15. See Section *Zone Functions, page 26*		0 = On-Board zone 1 = Keypad Zone* 2 = DX2010 Zone** 3 = RF Device 15 = not used	

* Zones 17 to 32 are dedicated to Keypad 1 to 32 (Zone 17 = Keypad 1, Zone 32 = Keypad 32)
** Zones 17 to 24 are dedicated to DX2010 address 103 ports 1 to 8, also see Table DX2010 modules
Zones 25 to 32 are dedicated to DX2010 address 104 ports 1 to 8, also see Table DX2010 modules

Notice!
When a zone is assigned to Keypad Zone (1) or RF Device (3), then the dedicated zone on DX2010 is not available.

Zone No	Area Selection Address	Default	Zone Function Selection Address	Default	Module Selection Address	Default
33	0742 - 0743	00	0838	1	0901	15
34	0744 - 0745	00	0839	1	0902	15
35	0746 - 0747	00	0840	1	0903	15
36	0748 - 0749	00	0841	1	0904	15
37	0750 - 0751	00	0842	1	0905	15
38	0752 - 0753	00	0843	1	0906	15
39	0754 - 0755	00	0844	1	0907	15
40	0756 - 0757	00	0845	1	0908	15
41	0758 - 0759	00	0846	1	0909	15
42	0760 - 0761	00	0847	1	0910	15
43	0762 - 0763	00	0848	1	0911	15
44	0764 - 0765	00	0849	1	0912	15
45	0766 - 0767	00	0850	1	0913	15
46	0768 - 0769	00	0851	1	0915	15
47	0770 - 0771	00	0852	1	0916	15
48	0772 - 0773	00	0853	1	0917	15
49	0774 - 0775	00	0854	1	0918	15
50	0776 - 0777	00	0855	1	0919	15
51	0778 - 0779	00	0856	1	0920	15
52	0780 - 0781	00	0857	1	0921	15
53	0782 - 0783	00	0858	1	0922	15
54	0784 - 0785	00	0859	1	0923	15
55	0786 - 0787	00	0860	1	0924	15
56	0788 - 0789	00	0861	1	0925	15
57	0790 - 0791	00	0862	1	0926	15
58	0792 - 0793	00	0863	1	0927	15
59	0794 - 0795	00	0864	1	0928	15
60	0796 - 0797	00	0865	1	0929	15
61	0798 - 0799	00	0866	1	0930	15
62	0800 - 0801	00	0867	1	0931	15
63	0802 - 0803	00	0868	1	0932	15

64	0804 - 0805	00	0869	1	0933	15
	Value Range: 00 = zone not used, 1 - 16 = Area 1- 16		Value Range:0–15. See Section *Zone Functions, page 26*.		0 = On-Board zone 1 = Keypad zone 2 = DX2010 Zone* 3 = RF Device 15 = not used	

* See next table

Notice!
When a zone is assigned to RF Device (3), then the dedicated zone on DX2010 is not available.

Module	Address
DX2010 module 1 (zones 17 - 24)	103
DX2010 module 2 (zones 25 - 32)	104
DX2010 module 3 (zones 33 - 40)	105
DX2010 module 4 (zones 41 - 48)	106
DX2010 module 5 (zones 49 - 56)	107
DX2010 module 6 (zones 57 - 64)	108

See also
– *Zone Programming, page 26*

4.4.3 Output Programming

On-board Output Programming

Option		Address	Default	
Keypad Alarm Tone, 0 = Disabled, 1 = Enabled		0503	1	
Siren Running Time, 00 - 99 = 0 - 99 minutes		0508 - 0509	00	
See *The Value Ranges of Output Programming Options, page 39*				
Output 1	Output Event Type	0510 - 0511	05 VDS-A EN=5	
	Output Area / Zone	0512 - 0513	00	
	Output Mode	0514	0 VDS-A EN=0	
	Output Time	0515 - 0517	180 VDS-A EN=180	
Output 2	Output Event Type	0518 - 0519	05 VDS-A EN=5	
	Output Area / Zone	0520 - 0521	00	
	Output Mode	0522	0 VDS-A EN=0	

	Output Time	0523 - 525	000 VDS-A EN=180	
Output 3	Output Event Type	0526 - 0527	05 VDS-A EN=5	
	Output Area / Zone	0528 - 0529	00	
	Output Mode	0530	0 VDS-A EN=0	
	Output Time	0531 - 0533	180 VDS-A EN=180	
Output 4	Output Event Type	0534 - 0535	07 VDS-A EN=5	
	Output Area / Zone	0536 - 0537	00	
	Output Mode	0538	0 VDS-A EN=0	
	Output Time	0539 - 0541	180 VDS-A EN=180	

Notice!
When the zone activating alarm is programmed as silent alarm, keypad and audible alarm have no output.

For the corresponding value ranges of output event type, output mode and output time as well as the relationship between output event type and Output in area see *The Value Ranges of Output Programming Options, page 39*

The Value Ranges of Output Programming Options

Output Event Type		**Description**	**Output Area / Zone**
Output Event	0	Not Used	No
	1	System Disarmed	0 = All Areas 1 – 16 = Areas 1 - 16
	2	System Armed	
	3	System Alarm	0 = Any Area, 1 - 16 = Areas 1 - 16
	4	System Alarm (audile and silent)	
	5	External AWAY Siren	
	6	External STAY Siren	
	7	Internal Siren	
	8	Internal Siren with tamper	
	9	Entry/Exit Delay Warning	1 - 16 = Areas 1 - 16
	10	Telephone Line Fault	
	11	AC Power Supply Fault	
	12	Low Battery	
	13	Tamper	0 = Any Area,

	14	External Fault	1 - 16 = Areas 1 - 16
	15	All Faults	
	16	Fire Alarm	0 = Any Area, 1 - 16 = Areas 1 - 16
	17	Fire Reset	
	18	AWAY Armed	0 = All Areas 1 - 16 = Areas 1 - 16
	19	STAY Armed	
	20	Reset *1	0 = Any Area 1 - 16 = Area number
	21	Follow Zone Event (Alarm and tamper)	Zone Number 1 - 64
	22	RF Keyfob button 3 (Garage Door)	0 = Any Area, 1 - 16 = Areas 1 - 16
	23	RF Keyfob button 4 (light)	
	24	Chime Indication *1	
	25	Verfied Alarm	
	26	Unverfied Alarm	
	27	Technical Alarm	
	28	Bypassed Zone	
	29	Ready to Arm	0 = All Areas 1 - 16 = Areas 1 - 16
	30	Walktest	
Output Mode	0	Continuous output	
	1	Pulse	
	2	Inverted	
Output Time	000 - 999	0 - 999 seconds	

*1 Output Timer is fix. (1 sec)

DX3010 Output Programming

This section is optional programming.

Module	Address
DX3010 module 1 (Output 5 - 12)	150
DX3010 module 2 (Output 13 - 20)	151

Table 4.2: DX3010 Address Settings

DX3010 1 Output Programming

Address 0542 - 0605
See *The Value Ranges of Output Programming Options, page 39*

Output 5	**Address**	**Default**	
Output Event Type	0542 - 0543	00	
Output Area / Zone	0544 - 0545	00	
Output Mode	0546	0	
Output Time	0547 - 0549	000	
Output 6	**Address**	**Default**	
Output Event Type	0550 - 0551	00	
Output Area / Zone	0552 - 0553	00	
Output Mode	0554	0	
Output Time	0555 - 0557	000	
Output 7	**Address**	**Default**	
Output Event Type	0558 - 0559	00	
Output Area / Zone	0560 - 0561	00	
Output Mode	0562	0	
Output Time	0563 - 0565	000	
Output 8	**Address**	**Default**	
Output Event Type	0566 - 0567	00	
Output Area / Zone	0568 - 0569	00	
Output Mode	0570	0	
Output Time	0571 - 0573	000	
Output 9	**Address**	**Default**	
Output Event Type	0574 - 0575	00	
Output Area / Zone	0576 - 0577	00	
Output Mode	0578	0	
Output Time	0579 - 0581	000	
Output 10	**Address**	**Default**	
Output Event Type	0582 - 0583	00	
Output Area / Zone	0584 - 0585	00	
Output Mode	0586	0	
Output Time	0587 - 0589	000	
Output 11	**Address**	**Default**	
Output Event Type	0590 - 0591	00	
Output Area / Zone	0592 - 0593	00	
Output Mode	0594	0	

Output Time	0595 - 0597	000	
Output 12	**Address**	**Default**	
Output Event Type	0598 - 0599	00	
Output Area / Zone	0600 - 0601	00	
Output Mode	0602	0	
Output Time	0603 - 0605	000	

DX3010 2 Output Programming

Address 0606 - 0669			
See *The Value Ranges of Output Programming Options, page 39*			
Output 13	**Address**	**Default**	
Output Event Type	0606 - 0607	00	
Output Area / Zone	0608 - 0609	00	
Output Mode	0610	0	
Output Time	0611 - 0613	000	
Output 14	**Address**	**Default**	
Output Event Type	0614 - 0615	00	
Output Area / Zone	0616 - 0617	00	
Output Mode	0618	0	
Output Time	0619 - 0621	000	
Output 15	**Address**	**Default**	
Output Event Type	0622 - 0623	00	
Output Area / Zone	0624 - 0625	00	
Output Mode	0626	0	
Output Time	0627 - 0629	000	
Output 16	**Address**	**Default**	
Output Event Type	0630 - 0631	00	
Output Area / Zone	0632 - 0633	00	
Output Mode	0634	0	
Output Time	0635 - 0637	000	
Output 17	**Address**	**Default**	
Output Event Type	0638 - 0639	00	
Output Area / Zone	0640 - 0641	00	
Output Mode	0642	0	

Output Time	0643 - 0645	000	
Output 18	**Address**	**Default**	
Output Event Type	0646 - 0647	00	
Output Area / Zone	0648 - 0649	00	
Output Mode	0650	0	
Output Time	0651 - 0653	000	
Output 19	**Address**	**Default**	
Output Event Type	0654 - 0655	00	
Output Area / Zone	0656 - 0657	00	
Output Mode	0658	0	
Output Time	0659 - 0661	000	
Output 20	**Address**	**Default**	
Output Event Type	0662 - 0663	00	
Output Area / Zone	0664 - 0665	00	
Output Mode	0666	0	
Output Time	0667 - 0669	000	

See also

– *Output Programming, page 39*

4.4.4 Access Codes

Code Length

Option	Address	Default	
Code Length,4 – 6 = 4 - 6 digits	1003	4	

The access code includes installer Code and User codes.
If the code is set as "15", then code is not used.
The code length is the same for all Access Codes.

Installer Code

Option	Address	Default
Installer Code	1004	1
	1005	2
	1006	3
	1007	4
	1008	5
	1009	6

User Codes

User No.	User Authority Level Address	Default/ Value Range *	Area Selection Address	Default / Value Range	User Code Address	Default
# 01 (master code)	1010	Default: 0 # 01 master code Priority is always 0	1011 - 1012	Default: 00 Value Range: See Table 6.5 on page 26.		
					1013	2
					1014	5
					1015	8
					1016	0
					1017	0
					1018	0
#02	1019	Default: 15 * Value Range: 0= Master code 1= Super code: 2= Basic code 3= Arming code 4= Duress code 5-15= No Priority	1020 - 1021	Default: 15 1020 = 1 1021 = 5	1022 - 1027	
#03	1028		1029 - 1030		1031 - 1036	
#04	1037		1038 - 1039		1040 - 1045	
#05	1046		1047 -1048		1049 - 1054	
#06	1055		1056 - 1057		1058 - 1063	
#07	1064		1065 - 1066		1067 - 1072	
#08	1073		1074 - 1075		1076 - 1081	
#09	1082		1083 - 1084		1085 - 1090	
#10	1091		1092 - 1093		1094 - 1099	
#11	1100		1101 - 1102		1103 - 1108	
#12	1109		1110 - 1111		1112 - 1117	
#13	1118		1119 - 1120		1121 - 1126	
#14	1127		1128 - 1129		1130 - 1135	
#15	1136		1137 - 1138		1139 - 1144	
#16	1145		1146 - 1147		1148 - 1153	
#17	1154		1155 - 1156		1157 - 1162	
#18	1163		1164 - 1165		1166 - 1171	
#19	1172		1173 - 1174		1175 - 1180	
#20	1181		1182 - 1183		1184 - 1189	
#21	1190		1191 - 1192		1193 - 1198	
#22	1199		1200 - 1201		1202 - 1207	
#23	1208		1209 - 1210		1211 - 1216	

#24	1217
#25	1226
#26	1235
#27	1244
#28	1253
#29	1262
#30	1271
#31	1280
#32	1289
#33	1298
#34	1307
#35	1316
#36	1325
#37	1334
#38	1343
#39	1352
#40	1361
#41	1370
#42	1379
#43	1388
#44	1397
#45	1406
#46	1415
#47	1424
#48	1433
#49	1442
#50	1451
#51	1460
#52	1469
#53	1478
#54	1487
#55	1496
#56	1505
#57	1514

1218 - 1219
1227 - 1228
1236 - 1237
1254 - 1246
1254 - 1255
1263 - 1264
1272 - 1273
1281 - 1282
1290 - 1291
1299 - 1300
1308 - 1309
1317 - 1318
1326 - 1327
1335 - 1336
1344 - 1345
1353 - 1354
1362 - 1363
1371 - 1372
1380 - 1381
1389 - 1390
1398 - 1399
1407 - 1408
1416 - 1417
1425 - 1426
1434 - 1435
1443 - 1444
1452 - 1453
1461 - 1462
1470 - 1471
1479 - 1480
1488 - 1489
1497 - 1498
1506 - 1507
1515 - 1516

1220 - 1225	
1229 - 1234	
1238 - 1243	
1247 - 1252	
1256 - 1261	
1265 - 1270	
1274 - 1279	
1283 - 1288	
1292 - 1297	
1301 - 1306	
1310 - 1315	
1319 - 1324	
1328 - 1333	
1337 - 1342	
1346 - 1351	
1355 - 1360	
1364 - 1369	
1373 - 1378	
1382 - 1387	
1391 - 1396	
1400 - 1405	
1409 - 1414	
1418 - 1423	
1427 - 1432	
1436 - 1441	
1445 - 1450	
1454 - 1459	
1463 - 1468	
1472 - 1477	
1481 - 1486	
1490 - 1495	
1499 - 1504	
1508 - 1513	
1517 - 1522	

#58	1523		1524 - 1525		1526 - 1531	
#59	1532		1533 - 1534		1535 - 1540	
#60	1541		1542 - 1543		1544 - 1549	
#61	1550		1551 - 1552		1553 - 1558	
#62	1559		1560 - 1561		1562 - 1567	
#63	1568		1569 - 1570		1571 - 1576	
#64	1577		1578 - 1579		1580 - 1585	

If the code is set as "15", then code is not used.

For Code Description refer to *User Code Commands, page 8*

Value	Area															
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
0																
1	X															
2		X														
3	X	X														
4			X													
5	X		X													
6		X	X													
7	X	X	X													
8				X												
9	X			X												
10		X		X												
11	X	X		X												
12			X	X												
13	X		X	X												
14		X	X	X												
15	X	X	X	X												
16					X											
17						X										
18					X	X										
19							X									
20					X		X									
21						X	X									
22					X	X	X									
23								X								
24					X			X								
25						X		X								
26					X	X		X								
27							X	X								
28					X		X	X								
29						X	X	X								
30					X	X	X	X								
31									X							

32										X						
33									X	X						
34											X					
35									X		X					
36										X	X					
37									X	X	X					
38												X				
39									X			X				
40										X		X				
41									X	X		X				
42											X	X				
43									X		X	X				
44										X	X	X				
45									X	X	X	X				
46													X			
47														X		
48													X	X		
49															X	
50													X		X	
51														X	X	
52													X	X	X	
53																X
54													X			X
55														X		X
56													X	X		X
57															X	X
58													X		X	X
59														X	X	X
60													X	X	X	X
61	X	X	X	X	X	X	X	X								
62	X	X	X	X					X	X	X	X				
63					X	X	X	X	X	X	X	X				
64	X	X	X	X	X	X	X	X	X	X	X	X				
65	X	X	X	X									X	X	X	X

66					X	X	X	X					X	X	X	X
67	X	X	X	X	X	X	X	X					X	X	X	X
68									X	X	X	X	X	X	X	X
69	X	X	X	X					X	X	X	X	X	X	X	X
70					X	X	X	X	X	X	X	X	X	X	X	X
71	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

Table 4.3: The Distribution of Personal Identification Number in Areas

4.4.5 System Programming

Exit Delay

Area	Address	Default	
1	0403 - 0405	045	
2	0409 - 0411	045	
3	0415 - 0417	045	
4	0421 - 0423	045	
5	0427 - 0429	045	
6	0433 - 0435	045	
7	0439 - 0441	045	
8	0445 - 0447	045	
9	0451 - 0453	045	
10	0457 - 0459	045	
11	0463 - 0465	045	
12	0469 - 0471	045	
13	0475 - 0477	045	
14	0481 - 0483	045	
15	0487 - 0489	045	
16	0493 - 0495	045	
000 - 999 seconds			

Entry Delay

Area	Address	Default	
1	0406 - 0408	030	
2	0412 - 0414	030	
3	0418 - 0420	030	
4	0424 - 0426	030	
5	0430 - 0432	030	
6	0436 - 0438	030	
7	0442 - 0444	030	
8	0448 - 0450	030	
9	0454 - 0456	030	
10	0460 - 0462	030	
11	0466 - 0468	030	
12	0472 - 0474	030	
13	0478 - 0480	030	
14	0484 - 0486	030	
15	0490 - 0492	030	
16	0496 - 0498	030	
000 - 999 seconds EN= 045 seconds			

Keypad

Keypad No. in Area	Address	Default	
1	1586 - 1587	01	
2	1588 - 1589	99	
3	1590 - 1591	99	
4	1592 - 1593	99	
5	1594 - 1595	99	
6	1596 - 1597	99	
7	1598 - 1599	99	
8	1600 - 1601	99	
9	1602 - 1603	99	
10	1604 - 1605	99	
11	1606 - 1607	99	
12	1608 - 1609	99	
13	1610 - 1611	99	
14	1612 - 1613	99	
15	1614 - 1615	99	
16	1616 - 1617	99	

Table 4.4: Keypad Area Settings

00 = Master Keypad
00-16 = Area
99 = not used

Notice!

The system supports up to 16 master keypads. When the master keypad is not switched to the corresponding Area, no Arming/disarming, bypass and alarm reset operations can be performed on the master keypad. Only by switching the master keypad to the corresponding Area, operations can be performed to the Area.

Keypad Lockout

Address 0499	Address	Default	
0 = disabled 1-15 times	0499	10 VDS-A EN=10	

Quick Arming

Address 0500	Address	Default	
0 = disabled 1= Enable	0500	1 VDS-A EN=0	

Display and Prompt Tone of Date and Time Fault

Address 0501	Address	Default	
0 = disabled 1= Enable	0501	0 VDS-A EN=1	

Fault Prompt Tone

Address 0502	Address	Default	
0 = disabled 1= Enable	0502	1 VDS-A EN=1	

Printer Functionality

Address 0940	Address	Default	
0 = disabled 1= Enable	0940	0	

RF Receiver

Address 0941	Address	Default	
0 = disabled 1= Enable	0941	0	

RF supervision

Address 0942	Address	Default	
0 = disable 1 = 1h 2 = 2h 3 = 4h 4 = 12 h 5 = 24h 6 = 2.5h	0942	4	

RF Jam Detect Level

Address 0943	Address	Default	
0-15 0 = most sensitive	0943	12	

RF Device Low Level Battery Resound

Address 0944	Address	Default	
0 = disable 1 = 4h 2 = 24h	0944	2	

Siren Beep Arm/Disarm (RF Keyfob)

Address 0945	Address	Default	
0 = disable 1 = Enable	0945	1	

RF Keyfob Panic Option

Address 0946	Address	Default	
0 = No alarm 1 = Silent alarm 2 = Non silent alarm	0946	0	

RF ID Devices

Sensor	Address	Default	Sensor	Address	Default	Sensor	Address	Default
1	1700 – 1708	15	23	1920 – 1928	15	45	2140 – 2148	15
2	1710 – 1718	15	24	1930 – 1938	15	46	2150 – 2158	15
3	1720 – 1728	15	25	1940 – 1948	15	47	2160 - 2168	15
4	1730 – 1738	15	26	1950 – 1958	15	48	2170 – 2178	15
5	1740 – 1748	15	27	1960 – 1968	15	49	2180 – 2188	15
6	1750 – 1758	15	28	1970 – 1978	15	50	2190 – 2198	15
7	1760 – 1768	15	29	1980 – 1988	15	51	2200 – 2208	15
8	1770 – 1778	15	30	1990 – 1998	15	52	2210 – 2218	15
9	1780 – 1788	15	31	2000 – 2008	15	53	2220 – 2228	15
10	1790 – 1798	15	32	2010 – 2018	15	54	2230 – 2238	15
11	1800 – 1808	15	33	2020 – 2028	15	55	2240 – 2248	15
12	1810 – 1818	15	34	2030 – 2038	15	56	2250 – 2258	15
13	1820 – 1828	15	35	2040 – 2048	15	57	2260 – 2268	15
14	1830 – 1838	15	36	2050 – 2058	15	58	2270 – 2278	15
15	1840 – 1848	15	37	2060 – 2068	15	59	2280 – 2288	15
16	1850 – 1858	15	38	2070 – 2078	15	60	2290 – 2298	15
17	1860 – 1868	15	39	2080 – 2088	15	61	2300 – 2308	15
18	1870 – 1878	15	40	2090 – 2098	15	62	2310 – 2318	15

19	1880 – 1888	15	41	2100 – 2108	15	63	2320 – 2328	15
20	1890 – 1898	15	42	2110 – 2118	15	64	2330 - 2338	15
21	1900 – 1908	15	43	2120 – 2128	15			
22	1910 – 1918	15	44	2130 - 2138	15			

Each RFID Device has nine digits. Each digit range is 0 to 9. The default value is 15, not in use.

Wireless Repeater RF ID

Repeater	Address	Default	
1	2340 - 2348	15	
2	2350 - 2358	15	
3	2360 - 2368	15	
4	2370 - 2378	15	
5	2380 - 2388	15	
6	2390 - 2398	15	
7	2400 - 2408	15	
8	2410 - 2418	15	

Transmitter RF ID

Keyfob	Address		Keyfob	Address	
1	2420 – 2428		33	2740 – 2748	
2	2430 – 2438		34	2750 – 2758	
3	2440 – 2448		35	2760 – 2768	
4	2450 – 2458		36	2770 – 2778	
5	2460 – 2468		37	2780 – 2788	
6	2470 – 2478		38	2790 – 2798	
7	2480 – 2488		39	2800 – 2808	
8	2490 – 2498		40	2810 – 2818	
9	2500 – 2508		41	2820 – 2828	
10	2510 – 2518		42	2830 – 2838	
11	2520 – 2528		43	2840 – 2848	
12	2530 – 2538		44	2850 – 2858	
13	2540 – 2548		45	2860 – 2868	
14	2550 – 2558		46	2870 – 2878	
15	2560 – 2568		47	2880 – 2888	
16	2570 – 2578		48	2890 – 2898	
17	2580 – 2588		49	2900 – 2908	
18	2590 – 2598		50	2910 – 2918	
19	2600 – 2608		51	2920 - 2928	
20	2610 – 2618		52	2930 – 2938	
21	2620 – 2628		53	2940 – 2948	
22	2630 – 2638		54	2950 – 2958	
23	2640 – 2648		55	2960 – 2968	
24	2650 – 2658		56	2970 – 2978	
25	2660 – 2668		57	2980 – 2988	
26	2670 – 2678		58	2990 – 2998	
27	2680 – 2688		59	3000 – 3008	
28	2690 – 2698		60	3010 – 3018	
29	2700 – 2708		61	3020 – 3028	
30	2710 – 2718		62	3030 – 3038	
31	2720 – 2728		63	3040 – 3048	
32	2730 – 2738		64	3050 – 3058	

Keyfob	Address		Keyfob	Address	
65	3060 – 3068		97	3380 – 3388	
66	3070 – 3078		98	3390 – 3398	
67	3080 – 3088		99	3400 – 3408	
68	3090 – 3098		100	3410 – 3418	
69	3100 – 3108		101	3420 – 3428	
70	3110 – 3118		102	3430 – 3438	
71	3120 – 3128		103	3440 – 3448	
72	3130 – 3138		104	3450 – 3458	
73	3140 – 3148		105	3460 – 3468	
74	3150 – 3158		106	3470 – 3478	
75	3160 – 3168		107	3480 – 3488	
76	3170 – 3178		108	3490 – 3498	
77	3180 – 3188		109	3500 – 3508	
78	3190 – 3198		110	3510 – 3518	
79	3200 – 3208		111	3520 – 3528	
80	3210 – 3218		112	3530 – 3538	
81	3220 – 3228		113	3540 – 3548	
82	3230 – 3238		114	3550 – 3558	
83	3240 – 3248		115	3560 – 3568	
84	3250 – 3258		116	3570 – 3578	
85	3260 – 3268		117	3580 – 3588	
86	3270 - 3278		118	3590 – 3598	
87	3280 – 3288		119	3600 – 3608	
88	3290 – 3298		120	3610 – 3619	
89	3300 – 3308		121	3620 – 3628	
90	3310 – 3318		122	3630 – 3638	
91	3320 – 3328		123	3640 – 3648	
92	3330 – 3338		124	3650 – 3658	
93	3340 – 3348		125	3660 – 3668	
94	3350 – 3358		126	3670 – 3678	
95	3360 – 3368		127	3680 – 3688	
96	3370 – 3378		128	3690 – 3698	

Assignment of Keyfobs is dynamically done by the System and cannot be changed.

All Keyfob RFID default values are 15.

RF Key Fob assignment to Areas

Number of Areas in the system	Area	Keyfobs Radion	Keyfobs DSRF
1	1	1 – 128	1 – 24
2	1	1 - 64	1 – 12
	2	65 - 128	13 – 24
3	1	1 - 43	1 - 8
	2	44 - 86	9 - 16
	3	87 - 128	17 - 24
4	1	1 - 32	1 - 6
	2	33 - 64	7 - 12
	3	65 - 96	13 - 18
	4	97 - 128	19 - 24

For information on Areas 5 – 16 refer to Installation Guide.

Address 3700 - 3735	Address	Default	
Company Name	3700 - 3735	0	

Table 4.5: Assign Company Name

Company Name may have up to 18 characters. Each character of the zone name uses 2 addresses.
Example: A = 4 1, A = Address 3736 = 4, Address 3737 = 1
One character needs 2 values to enter into 2 addresses. Determine these values using the matrix of table below. Every character in this table has a row index and also a column index. Row Index is the first; column index is the second value for each character.
Example:
o = 6 15
k = 6 11

	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
2		!	"	#	$	%	&	'	(	)	*	+	-	,	.	/
3	0	1	2	3	4	5	6	7	8	9	:	;	<	=	>	?
4	@	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
5	P	Q	R	S	T	U	V	W	X	Y	Z	[	\	]	^	_
6	'	a	b	c	d	e	f	g	h	i	j	k	l	m	n	o
7	p	q	r	s	t	u	v	w	x	y	z	{	|	}	~	
8	đ	Ą	ą	Ł	Ğ	..	Ć	Ś	Ű		Ş	İ	Ź	Ę	ź	Ż
9	Ń	ń	Č	ł	ğ	¨	ć	ś	ű	č	ş	I	Ţ	ę	ţ	ż

10	á	ł	¢	£	€	¥	Š	§	š	©	ª	«	¬	-	®	¯
11	°	±	²	³	Ž	µ	¶	•	ž	¹	º	»	Œ	œ	Ÿ	¿
12	À	Á	Â	Ã	Ä	Å	Æ	Ç	È	É	Ê	Ë	Ì	Í	Î	Ï
13	Đ	Ñ	Ò	Ó	Ô	Õ	Ö	×	Ø	Ù	Ú	Û	Ü	Ý	Þ	ß
14	à	á	â	ã	ä	å	æ	ç	è	é	ê	ë	ì	í	î	ï
15	ð	ñ	ò	ó	ô	ô	ö	÷	ø	ù	ú	û	ü	ý	þ	ÿ

Table 4.6: Characters

Zone	Zone Name	Adress	Default	
1		3736 - 3771	0	
2		3772 - 3807	0	
3		3808 - 3843	0	
4		3844 - 3879	0	
5		3880 - 3915	0	
6		3916 - 3951	0	
7		3952 - 3987	0	
8		3988 - 4023	0	
9		4024 - 4059	0	
10		4060 - 4095	0	
11		4096 - 4131	0	
12		4132 - 4167	0	
13		4168 - 4203	0	
14		4204 - 4239	0	
15		4240 - 4275	0	
16		4276 - 4311	0	
17		4312 - 4347	0	
18		4348 - 4383	0	
19		4384 - 4419	0	
20		4420 - 4455	0	
21		4456 - 4491	0	
22		4492 - 4527	0	
23		4528 - 4563	0	
24		4564 - 4599	0	
25		4600 - 4635	0	

Zone	Zone Name	Adress	Default	
26		4636 - 4671	0	
27		4672 - 4707	0	
28		4708 - 4743	0	
29		4744 - 4779	0	
30		4780 - 4815	0	
31		4816 - 4851	0	
32		4852 - 4887	0	
33		4888 - 4923	0	
34		4924 - 4959	0	
35		4960 - 4995	0	
36		4996 - 5031	0	
37		5032 - 5067	0	
38		5068 - 5103	0	
39		5104 - 5139	0	
40		5140 - 5175	0	
41		5176 - 5211	0	
42		5212 - 5247	0	
43		5248 - 5283	0	
44		5284 - 5319	0	
45		5320 - 5355	0	
46		5356 - 5391	0	
47		5392 - 5427	0	
48		5428 - 5463	0	
49		5464 - 5499	0	
50		5500 - 5535	0	
51		5536 - 5571	0	
52		5572 - 5607	0	
53		5608 - 5643	0	
54		5644 - 5679	0	
55		5680 - 5715	0	
56		5716 - 5751	0	
57		5752 - 5787	0	
58		5788 - 5823	0	

Zone	Zone Name	Adress	Default	
59		5824 - 5859	0	
60		5860 - 5895	0	
61		5896 - 5931	0	
62		5932 - 5967	0	
63		5968 - 6003	0	
64		6004 - 6039	0	

Table 4.7: Assign Zone Names

Zone Name may have up to 18 characters. Each character of the zone name uses 2 addresses.
Example: A = 4 1, A = Address 3736 = 4, Address 3737 = 1

5 Troubleshooting

Problem	Reason	Solution
No display on keypad after power up	– AC power or battery fuse failure. – Abnormal RBGY wiring.	– Check if the AC power and battery fuses are properly connected and operate normally. – Re-connect RBGY.
No response to keypad operation (wrong tone sounds on pressing any key).	– Abnormal RBGY wiring. – The keypad is locked after many times of wrong passwords are entered. – Wrong jumper when multiple keypads are used.	– Re-connect RBGY. – Operate after 3 minutes. – Set the jumper again referring to the information on keypad address settings.
Constant on of the zone indicator.	– Wrong zone wiring. – Abnormal detector function. – Zone EOL resistor is not correctly connected to the end of the detector.	– Enter zone wiring once again. – Reset the detector. – Correctly connect the zone EOL resistor to the end of the detector.
Fault indicator constant on/ flash	– Date and time fault displayed in programming although date and time are not set. – Backup battery is not connected or the voltage of the battery connected is lower than 12V. – Alarm siren is not connected. – The telephone number is incorrectly set. – Telephone network is not connected. – The tamper switch is not connected. – External module should be used for programming, but it not connected actually.	– Set date and time. – Connect the battery or resume the voltage of the battery to over 12V. – Connect the alarm siren (with the alarm siren substituted by a resistor of 1K) – Correctly set the telephone number again. – Connect the telephone network. – Connect the tamper switch or the short circuit jumper. – Connect modules for programming such as DX2010-CHI, DX3010-CHI, B426-CN, or ITS-DX4020-G.
No response from the zone for a short time after power up	– To ensure normal operation, the system should be left alone for a minute after power up.	– Operate after 1 minute.

AC power fault	– AC power fuse is burnt.	– Check if the 18V of the transformer is correctly wired and replace the fuse.
Over current protection of the auxiliary power	– Abnormal wiring of the 12V auxiliary power – The auxiliary power exceeds the power supply upper limit of 2000mA for the control panel.	– Reconnect the auxiliary power. – Use external power supply for perimeter devices.
The auxiliary power cannot be recovered after short circuit.	– AC power and battery fail.	– Power up AC power and battery again.
Failure of battery is still displayed after the battery is replaced	– The battery might be tested 4 hours after the system is armed each time. – The voltage of the battery is lower than 12V.	– The fault will be automatically cleared when the system is reset or the battery is re-tested. – Charge the new battery for a period of time until the voltage reaches 12V or above.
Not entering programming mode after power up.	– The system is in alarm state. – The system is in arming state.	– Reset the alarm. – Disarm the system and keep it in the disarming status.
The red LED on the main board goes off	– Abnormal AC power and backup battery. – The main board fails.	– Check AC power and backup battery. – Replace the main board
The system does not dial when the alarm presents.	– Relevant receiver parameters are not set.	– Correctly set the telephone number, set transmission format to CID and set zone alarm to corresponding paths.
Remote telephone arming fails.	– The remote telephone arming is disabled (the address 0144 is set to 0). – There are multiple areas in the system.	– Program the address 0144 to a number from 1 to 15. – The telephone arming is available when the system has area 1 only.
RPS cannot perform remote programming and control.	– Both addresses 0144 and 0145 are set to 0.	– Program the address 0144 to a number from 1 to 15. Program the address 0145 to 1.

Occasionally abnormal communication in use of Contact ID/personal telephone alarm.	– Extension system is used in the telephone network. – The telephone network support ADSL as well.	– Add dial delay in programming. – Connect the system after the ADSL filter.
No response from keypad and alarm siren (disabled) when an alarm is triggered by the zone.	– The zone silent alarm is enabled.	– Disable the zone silent alarm.
The control panel cannot send any reports (programmed to send reports to receiver).	– The transmission format of the receiver is programmed to 0 = not used.	– Program the transmission format of the receiver to 1 or 3.
A-LINK cannot be connected with ITS- DX4020-G.	– The parameters of ITS-DX4020-G are not properly set.	– Recommend to set the parameter ACK TIMEOUT of ITS-DX4020-G to the maximum (600) and set TRANSMIT BUFFER LIFE TIME to the maximum (120).

6 Technical Data

Panel		
Enclosure:		
Dimensions (HxWxD):	–	375 x 322 x 88 mm(L x W x H)
Weight:	–	4700g
Environmental Considerations:		
Relative Humidity:	–	10%-95%
Operating Temperature:	–	-10°C - +55°C
Supervised Zones:		
Onboard:		
Z1:	–	2 wire fire zone or Single or dual end-of-line (EOL 2,2KΩ) tamper point support
Z2 - Z16 COM:	–	15 Single or dual end-of-line (EOL 2,2KΩ) tamper point support
Tamper:	–	Enclosure tamper input (does not reduce point capacity)
Outputs (PO):		
Programmable Onboard:		
PO -1:	–	supervised output max 500mA
PO -2:	–	supervised output max 500mA
PO +3:	–	+12V / max 750mA
PO +4:	–	+12V / max 750mA
Onboard:		
Watchdog PO -5:	–	/ max 100mA
Number of...		
Zones:	–	64
Users:	–	64
Key Fob Users:	–	DSRF = 24, Radion = 128
Events:	–	254 history events, stamped with time and date
	–	254 EN history events, stamped with time and date
	–	254 dialer history events, stamped with time and date
Pin Code variations:	–	1.000.000
Keypads:	–	16
DX 3010:	–	2

B 426 or DX 4020 or DX 4020G (only 1):	– 2
DX2010:	– 6
DX 4010:	– 1
RF Receiver:	– 1
RF Repeater:	– DSRF = 0, Radion = 8
RF Sensors:	– 64
RF Keyfobs:	– DSRF = 24, Radion = 128
– **Power:**	
Power Supply Type:	– EN = A
Transformer:	– 230V Input/18VAC 50VA Fuse=1A
AC Input:	– AC Input Voltage: 195 VAC to 253 VAC – Line Voltage Frequency: 50 Hz
DC Output:	– maximum current for all components 2000mA – max current for all components Battery 7Ah standby 12h (recharge Batt 80% in 72h) = 550mA – max current for all components Battery 17Ah standby 12h (recharge Batt 80% in 72h) = 1500mA – max current for all components Battery 17Ah standby 36h (recharge Batt 80% in 24h) = 480mA
Aux 1(+12V/GND) Output:	– Nominal Output Voltage under AC line input: 13,8 VDC +3% / -5% – Output Voltage Range under AC line input: 13.11 VDC to 14.2 VDC – 900mA maximum – Vpp (max) 675mV
Aux 1(+12V/GND) Output:	– Nominal Output Voltage under AC line input: 13,8 VDC +3% / -5% – Output Voltage Range under AC line input: 13.11 VDC to 14.2 VDC – 900mA maximum – Vpp (max) 675mV
Option Bus 1:	– Nominal Output Voltage under AC line input: 13,8 VDC +3% / -5% – Output Voltage Range under AC line input: 13.11 VDC to 14.2 VDC – 900mA maximum
Option Bus 2:	– Nominal Output Voltage under AC line input: 13,8 VDC +3% / -5% – Output Voltage Range under AC line input: 13.11 VDC to 14.2 VDC – 900mA maximum

Panel PCB:	– Quiescent current maximum 100mA
Battery:	– 12V/7 Ah, lead acid rechargeable – 12V/17Ah, lead acid rechargeable – Low battery condition is below 11,0 VDC – Minimum battery condition is 10,8VDC
Certification:	– EN 50131-3 Grade-3 Environmental Class-II
Keypads:	
IUI-AMAX4-TEXT (LCD Text Keypad)	
Relative Humidity:	– 10%-95%
Operating Temperature:	– -10°C - +55°C
Input Voltage range:	– 10.8VDC - 13.8VDC
Current Consumption:	– standby 31mA – maximum 100mA
Cable requirements:	– four wire, AWG18 or AWG22 – maximum length 200m (Panel to last KP) – maximum BUS 1 length 700m (max 14 devices, max 8 KPs) – maximum BUS 2 length 700m (max 14 devices, max 8 KPs)
EN type:	– EN = B, IK = 06, IP = 30
Certification:	– EN 50131-3 Grade-3 Environmental Class-II
IUI-AMAX3-LED16 (16 Zone LED Keypad)	
Relative Humidity:	– 10%-95%
Operating Temperature:	– -10°C - +55°C
Input Voltage range:	– 10.8VDC - 13.8VDC
Current Consumption:	– standby 31mA – maximum 60mA
Cable requirements:	– four wire, AWG18 or AWG22 – maximum length 200m (Panel to last KP) – maximum BUS 1 length 700m (max 14 devices, 8 KPs) – maximum BUS 2 length 700m (max 14 devices, 8 KPs)
EN type:	– EN = B, IK = 06, IP = 30
Certification:	– EN 50131-3 Grade-3 Environmental Class-II
IUI-AMAX3-LED8 (8 Zone LED Keypad)	
Relative Humidity:	– 10%-95%
Operating Temperature:	– -10°C - +55°C
Input Voltage range:	– 12V normal

Current Consumption:	– standby 31mA – maximum 60mA
Cable requirements:	– four wire, AWG18 or AWG22 – maximum length 200m (Panel to last KP) – maximum BUS 1 length 700m (max 14 devices, 8 KPs) – maximum BUS 2 length 700m (max 14 devices, 8 KPs)
EN type:	– EN = B, IK = 06, IP = 30
Certification:	– EN 50131-3 Grade-3 Environmental Class-II

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